

APPLICANT FACSIMILE OF FORM PTO-1449
 REV 7-80

 U.S. DEPARTMENT OF COMMERCE
 PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

SERIAL NO.

PKZ-035CPA2CN2

10/629,340

 LIST OF PUBLICATIONS CITED BY APPLICANT
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APPLICANT

Margret Oethinger et al.

FILING DATE

July 28, 2003

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1654

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
LL	A1	4,806,529	2/89	Levy	514	154	
LL	A2	5,021,407	6/91	Levy	514	154	
LL	A3	5,064,821	11/91	Levy	514	154	
LL	A4	5,179,096	01/93	Gentilini et al.	514	253	
LL	A5	5,258,372	11/93	Levy	514	154	
LL	A6	5,589,470	12/96	Levy	514	154	
LL	A7	5,789,188	8/98	Rothstein, et. al.	435	29	
LL	A8	5,811,412	9/98	Levy	514	154	
LL	A9	5,817,793	10/98	Levy	536	24.1	
LL	A10	5,989,832	11/99	Trias et al.	435	7.2	
LL	A11	6,068,972	5/00	Levy	435	4	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
LL	A12	WO 96/33285	10/96	PCT			X	
LL	A13	WO 99/37667	01/99	PCT			X	
LL	A14	WO 99/17607	04/99	PCT			X	
LL	A15	WO 99/17760	04/99	PCT			X	
LL	A16	WO 99/17791	04/99	PCT			X	
LL	A17	WO 99/32657	07/99	PCT			X	
LL	A18	WO 99/37800	07/99	PCT			X	
LL	A19	WO 00/01714	01/00	PCT			X	
LL	A20	WO 00/32196	06/00	PCT			X	
LL	A21	WO 96/23075	08/00	PCT			X	

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

LL	A22	Aono, Rikizo (1998) "Improvement of Organic Solvent Tolerance Level of Escherichia Coli by Overexpression of Stress-Responsive Genes", Extremophiles Vol. 2 p. 239-248;	
Examiner		Date Considered 4/05	
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CC	B2	Brenwald, N.P. et al. Fluoroquinolone Resistance in Streptococcus pneumoniae by an Efflux Mechanism, Abstr of the 37 th Inersc. Conference on Antimicrobial Agents and Chemotherapy;
CC	B3	Buyse, J.M. et al. (1996) "Mutation of the AcrAB antibiotic efflux pump in Escherichia coli confers susceptibility to oxazolidinone antibiotics" Abstracts of the Interscience Conference Of Antimicrobial Agents And Chemotherapy, Vol. 36, No. 0, pp. 41. 36 th ICAAC (International Conference of Antimicrobial Agents and Chemotherapy) New Orleans, Louisiana, USA. September 15-18;
CC	B4	Cohen, Seth P. et al. (1989) "Cross-Resistance to Fluoroquinolones In Multiple-Antibiotic-Resistant (Mar) Escherichia Coli Selected By Tetracycline Or Chloramphenicol: Decreased Drug Accumulation Associated With Membrane Changes In Addition To OmpF Reduction" Antimicrobial Agents and Chemotherapy, Vol. 33, No. 8, pp. 1318-1325;
CC	B5	Fournier, B. et al. A mutation in the grlB Gene of topoisomerase IV from Staphylococcus aureus Causes an Increase of Fluoroquinolone Resistance and A Decrease of coumarin Resistance, Abstracts of the 37 th Inerscience Conference on Antimicrobial Agents and Chemotherapy;
CC	B6	Goldman, John D. (1996) "Multiple Antibiotic Resistance (mar) Locus Protects Escherichia Coli From Rapid Cell Killing by Fluoroquinolones" Antimicrobial Agents and Chemotherapy, Vol. 40, No. 5, pp. 1266-1269;
CC	B7	Gustafson, John E. et al. (1999) "Growth In The Presence of Salicylate Increases Fluoroquinolone Resistance In Staphylococcus Aureus" Antimicrobial Agents and Chemotherapy, vol. 45, No. 4 pp. 990-992;
CC	B8	Hooper D.C. et al. (1987) "Mechanisms of action of and resistance to ciprofloxacin". Am J Med 82(4A);
CC	B9	Hullen, V. et al. (1998) "Induction of the mar Phenotype Is a Possible Cause for The Development of Fluoroquinolone Resistance In Escherichia Coli," Antimicrob. Resist. Action;
CC	B10	Kern, W.V. et al. Selection of high-level fluoroquinolone-resistant Escherichia coli mutants in-vitro: involvement of the mar or Sox system, Abstracts of the 37 th Inerscience Conference on Antimicrobial Agents and Chemotherapy;
CC	B11	Levy, Colin W et al. (1999) "Molecular Basis of Triclosan Activity" Nature, Vol. 398, pp. 383-384;
CC	B12	Lewis, Kim et al. (1996) "Multidrug Resistance Pumps Provide Broad Defense" ASM News, Vol. 63, No. 11 pp. 605-610;
CC	B13	Lewis, Kim (1994) "Multidrug Resistance Pumps In Bacteria; Variations On a Theme" TIBS 19, pp. 119-123;
CC	B14	Lomovskaya, O. et al. "Identification and characterization of Efflux Pump Inhibitors in P. aeruginosa", Abstract no. F-1264, Poster Presentation at the 38 th Inerscience Conference on Antimicrobial Agents and Chemotherapy;
CC	B15	Lomovskaya, O. et al. "Inhibitors of Efflux Pumps in Pseudomonas aeruginosa Potentiate the Activity of the Fluoroquinolone Antibacterial Levofloxacin", Abstract no. F-1265, Poster Presentation at the 38 th Inerscience Conference on Antimicrobial Agents and Chemotherapy;
CC	B15	Lomovskaya, O. et al. "Efflux Pump Inhibitors (EPIs) Enhance the Activity of antimicrobial Agents against a random Selection of Bacteria", Abstract no. F-1266, Poster Presentation at the 38 th Inerscience Conference on Antimicrobial Agents and Chemotherapy

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ff	C1	Lomovskaya, O. et al. "Prevalence of Efflux Pump Overexpression Among Clinical Isolates of Pseudomonas Efflux Pump Inhibitors (EPIs) Enhance the Activity of antimicrobial Agents against a random Selection of Bacteria", Abstract no. F-1267, Poster Presentation at the 38 th Interscience Conference on Antimicrobial Agents and Chemotherapy
ff	C2	Lomovskaya, O. et al. "Potentiation of Levofloxacin (Ilevo) by a Broad-Spectrum Efflux Pump Inhibitor ('EPI) in Mouse Models of Infection Due to Pseudomonas aeruginosa", Abstract no. F-1268, Poster Presentation at the 38 th Interscience Conference on Antimicrobial Agents and Chemotherapy;
ff	C3	Lomovskaya, O. et al. "Inhibitors of Fungal Efflux Pump", Abstract no. F-1269, Poster Presentation at the 38 th Interscience Conference on Antimicrobial Agents and Chemotherapy
ff	C4	Lomovskaya, Olga et al. (1999) "Use of a Genetic Approach To Evaluate the Consequences of Inhibition of Efflux Pumps in Pseudomonas Aeruginosa" Antimicrobial Agents and Chemotherapy, Vol. 43, No. 6, pp. 1340-1346;
ff	C5	Markham PN, et al. (1999) "Multiple novel inhibitors of the NorA multidrug transporter of Staphylococcus aureus. <i>Antimicrob Agents Chemother.</i> ;43(10):2404-8.
ff	C6	Ma, Dzwokai et al. (1995) "Genes acrA and acrB Encode A Stress-Induced Efflux System of Escherichia Coli" Molecular Microbiology Vol. 16, No. 1, pp. 45-55;
ff	C7	Ma, Dzwoka et al. (1996) "The Local Repressor AcrR Plays A Modulating Role In The Regulation of acrAB Genes of Escherichia Coli by Global Stress Signals" Molecular Microbiology, Vol. 19, No. 1, pp. 101-112;
ff	C8	McMurry, Laura et al. (1998) "Overexpression of marA, soxS, or acrAB produces resistance to triclosan in Escherichia coli. <i>FEMS Microbiol. Lett.</i> 166(2), 305-309;
ff	C9	McMurry, Laura et al. (1994) "Active Efflux of Chloramphenicol In Susceptible Escherichia Coli Strains and in Multiple-Antibiotic-Resistant (Mar) Mutants" Antimicrobial Agents and Chemotherapy, Vol. 38, No. 3, pp. 542-546;
ff	C10	Miller, Paul F and Sulavik, Mark C. (1996) "Overlaps and Parallels In The Regulation of Intrinsic Multiple-Antibiotic Resistance In Escherichia Coli" Molecular Microbiology, Vol. 21, No. 3, pp. 441-448;
ff	C11	Moken, Merri C. et al. (1997) "Selection of Multiple-Antibiotic-Resistant (Mar) Mutants of Escherichia Coli by Using the Disinfectant Pine Oil: Roles of the mar and acrAB Loci" Antimicrobial Agents and Chemotherapy Vol. 41, No. 12, pp. 2770-2772;
ff	C12	Nikaido, Hiroshi (1996) "Multidrug Efflux Pumps of Gram-Negative Bacteria" Journal of Bacteriology Vol. 178, No. 20 pp. 5853-5859;
ff	C13	Nikaido, Hiroshi et al. (1998) "Multidrug Efflux Pump AcrAB of Salmonella Typhimurium Excretes Only Those β -Lactam Antibiotics Containing Lipophilic Side Chains" Journal of Bacteriology, Vol. 180, No. 17, pp. 4686-4692;
ff	C14	Oethinger, M. et al., (1998) "Ineffectiveness of Topoisomerase Mutations in <i>Escherichia coli</i> in the Absence of the AcrAB Multidrug Efflux Pump" Presented at the 38 th Interscience Conference on Antimicrobial Agents and Chemotherapy; September 24-27, 1998 in San Diego, CA. (Abstract no. C125);

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ll	D1	Oethinger, Margret et al. (1998) "Overexpression of the marA or soxS Regulatory Gene in Clinical Topoisomerase Mutants of Escherichia Coli" Antimicrobial Agents and Chemotherapy, Vol. 42, No. 8 pp. 2089-2094;
ll	D2	Oethinger, Margret et al. (1998) "Associate of Organic Solvent Tolerance and Fluoroquinolone Resistance In Clinical Isolates of Escherichia Coli" Journal of Antimicrobial Chemotherapy, Vol. 41, pp. 111-114;
ll	D3	Okusu, Haruko et al. (1996) "AcrAB Efflux Pump Plays a Major Role in the Antibiotic Resistance Phenotype of Escherichia Coli Multiple-Antibiotic-Resistance (Mar) Mutants" Journal of Bacteriology Vol. 178, No. 1 pp. 306-308;
ll	D4	Park, Yoon-Hee et al. (1996) "Molecular Analysis of Fluoroquinolone-Resistance in Escherichia Coli on the Aspect of Gyrase and Multiple Antibiotic Resistance (mar) Genes" Medical Journal, Vol. 39, No. 4 pp. 514-540;
ll	D5	Paulsen, Ian T. et al. (1996) "Proton-Dependent Multidrug Efflux Systems" Microbiological Reviews Vol. 60, No. 4 pp. 575-608;
ll	D6	Sanchez, Laura et al. (1997) "The acrAB Homolog of Haemophilus influenzae Codes for a Functional Multidrug Efflux Pump, Vol 179(21), pp. 6855-6857;
ll	D7	Schmitz, Franz-Josef et al. (1998) "The Effect of Reserpine, An Inhibitor of Multidrug Efflux Pumps, On The In-Vitro Activites of Ciprofloxacin, Sparfloxacin and Moxifloxacin Against Clinical Isolates of Staphylococcus Aureus" Journal of Antimicrobial Chemotherapy Vol. 42, pp. 807-810;
ll	D8	Spratt, Brian G. (1994) "Resistance to Antibiotics Mediated by Target Alterations" Science Vol 264, pp. 388-392;
ll	D9	Sun, Li et al. (1996) "NorA Plasmid Resistance to Fluoroquinolones: Roles of Copy Number and norA Frameshift Mutations" Antimicrobial Agents and Chemotherapy Vol. 40, No. 7, pp 1665-1669;
ll	D10	Tanaka, Toshihiko et al. (1997) "RobA-induced multiple antibiotic resistance largely depends on the activation of the AcrAB efflux" Microbiol. Immunol. 41(9), 697-702;
ll	D11	Tankovic J, et al. (1996) "Contribution of mutations in gyrA and parC genes to fluoroquinolone resistance of mutants of Streptococcus pneumoniae obtained in vivo and in vitro" Antimicrob Agents Chemother;40(11):2505-10;
ll	D12	White, David G. et al. (1997) "Role of the acrAB Locus In Organic Solvent Tolerance Mediated By Expression of marA, soxS, or robA in Escherichia Coli" Journal of Bacteriology Vol. 179, No. 19 pp 6122-6126.

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EE	E1	6,326,391	12/01	Markham <i>et al.</i>	514	410	
EE	E2	6,346,391	02/02	Oethinger <i>et al.</i>	435	32	

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